

# Converting Colors

$Y_{xy}(70.0602, 0.2179, 0.2350)$

Have a look what the booklet for  
Yxy(70.0602, 0.2179, 0.2350)  
contains.

<b>Yxy(65.6596, 0.2405, 0.2932)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(65.6596, 0.2405, 0.2932)**

# Conversions

## Conversions Part 1

Format	Color
Hex	80E1FF
RGB	128, 225, 255
RGB Percent	50%, 88%, 100%
CMY	0.4986, 0.1175, 0.0001
CMYK	0.50, 0.12, 0.00, 0.00
HSL	194°, 100%, 75%
HSV	194°, 50%, 100%
XYZ	53.8579, 65.6596, 104.4238
YIQ	199.4170, -67.4420, -11.2340

# Conversions

## Conversions Part 2

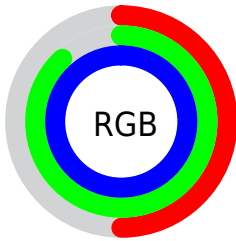
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">128, 183, 255</a>
Decimal	<a href="#">8446463</a>
CIELab	<a href="#">84.82, -20.83, -23.40</a>
CIElCh	<a href="#">85, 31.326, 228.329</a>
Yxy	<a href="#">65.6596, 0.2405, 0.2932</a>
Android (android.graphics.Color)	<a href="#">4286636543 (0xFF80E1FF)</a>
YUV	<a href="#">199.4170, 27.4024, -62.6327</a>
Hunter-Lab	<a href="#">81.0306, -23.1616, -19.6854</a>

# Details

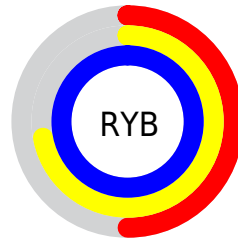
The Yxy color **65.6596, 0.2405, 0.2932** is a light color, and the websafe version is hex **66CCFF**. A complement of this color would be **47.1996, 0.4376, 0.3604**, and the grayscale version is **57.2227, 0.3127, 0.3290**.

A 20% lighter version of the original color is **89.3048, 0.2736, 0.3289**, and **33.9849, 0.2246, 0.2847** is the 20% darker color. If you saturate the color by 10%, you get **60.7378, 0.2292, 0.2846**, and if you desaturate by 10%, it is **71.1971, 0.2533, 0.3014**.

# Distribution



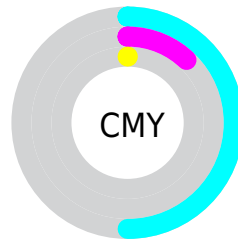
- Red (50%)
- Green (88%)
- Blue (100%)



- Red (50%)
- Yellow (72%)
- Blue (100%)



- Cyan (50%)
- Magenta (12%)
- Yellow (0%)
- Black (0%)




- Cyan (50%)
- Magenta (12%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 65.6596, 0.2405, 0.2932 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the Yxy color 65.6596, 0.2405, 0.2932 by changing the saturation by 10% instead.





 65.6596, 0.2405,  
0.2932


 65.6596, 0.2405,  
0.2932

445.1585, 0.2735,  
0.3107


 47.9961, 0.2331,  
0.2890


 112.9976, 0.2518,  
0.2995

 33.8238, 0.2241,  
0.2837


 143.4410, 0.2563,  
0.3018

 22.7583, 0.2129,  
0.2769


 178.9131, 0.2601,  
0.3039

 14.4151, 0.1986,  
0.2678

219.7983, 0.2634,  
0.3056

 8.4100, 0.1797,  
0.2552

266.4811, 0.2664,  
0.3071

 4.3584, 0.1541,  
0.2366

319.3458, 0.2690,

 1.8760, 0.1182,

0.3085

0.2073

378.7768, 0.2714,  
0.3097

■ 0.5339, 0.0000,  
0.1583

■ 0.0000, 0.0000,  
0.0000

■ 65.6596, 0.2405,  
0.2932

■ 65.6596, 0.2405,  
0.2932

■ 60.7378, 0.2292,  
0.2846

■ 71.1971, 0.2533,  
0.3014

■ 56.3853, 0.2196,  
0.2759

■ 77.3781, 0.2673,  
0.3092

■ 52.5597, 0.2121,  
0.2670

■ 84.2372, 0.2821,  
0.3164

■ 49.2083, 0.2065,  
0.2582

■ 91.8041, 0.2974,  
0.3230

■ 46.2463, 0.2027,  
0.2495

99.9987, 0.3127,  
0.3290

■ 46.2051, 0.2026,  
0.2494

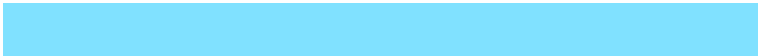
# Harmonies

## Analogous

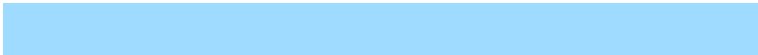
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



65.6596, 0.2517, 0.3275



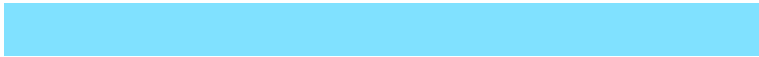
65.6596, 0.2405, 0.2932



65.6596, 0.2470, 0.2716

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



65.6596, 0.2405, 0.2932



65.6596, 0.3452, 0.2960



65.6596, 0.3539, 0.3988

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



65.6596, 0.2405, 0.2932



47.1996, 0.4376, 0.3604

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



65.6596, 0.3817, 0.3845



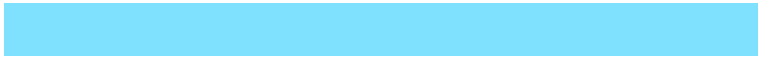
65.6596, 0.2405, 0.2932



65.6596, 0.3772, 0.3254

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



65.6596, 0.2405, 0.2932



65.6596, 0.3055, 0.2746



65.6596, 0.3907, 0.3572



65.6596, 0.3160, 0.3925



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



65.6596, 0.2405, 0.2932



65.6596, 0.2607, 0.2658



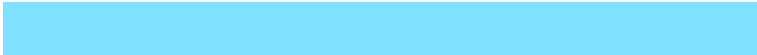
65.6596, 0.3907, 0.3572



65.6596, 0.3647, 0.3960

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



65.6621, 0.2405, 0.2932



87.8375, 0.2895, 0.3197



78.5369, 0.2919, 0.4516



18.4633, 0.2863, 0.3183



0.0000, 0.0000, 0.0000

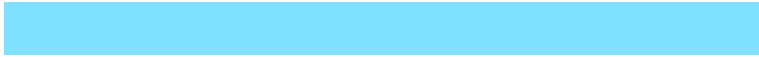


21.4041, 0.3127, 0.3290

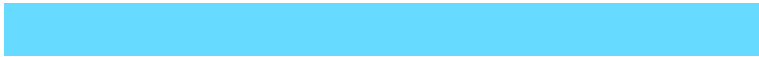


# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



65.6621, 0.2405, 0.2932



60.6822, 0.2290, 0.2845



37.5519, 0.2248, 0.2120



19.7132, 0.2980, 0.3233



24.3886, 0.2030, 0.2508



2.5414, 0.2058, 0.2608



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



42.0950, 0.3460, 0.2329



35.8746, 0.3552, 0.2168



74.5660, 0.4021, 0.4223



18.2229, 0.3174, 0.3110



13.1900, 0.3914, 0.1930

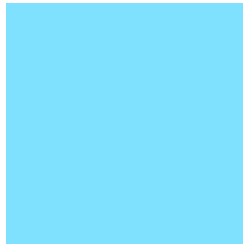


1.3011, 0.3816, 0.1876



# Previews

## White Background



This preview shows how the Yxy color 65.6596, 0.2405, 0.2932 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

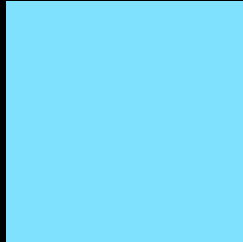
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 65.6596, 0.2405, 0.2932 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

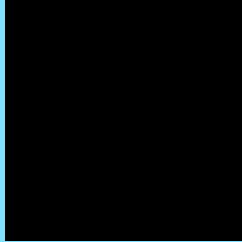
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 65.6596, 0.2405, 0.2932**

## **Background**



This preview shows how black text looks on a background with the Yxy color 65.6596, 0.2405, 0.2932.

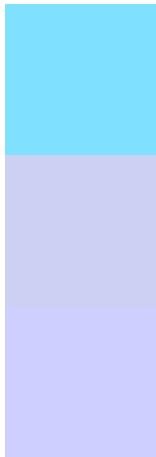


This preview shows how white text looks on a background with the Yxy color 65.6596, 0.2405, 0.2932.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

65.6596, 0.2405, 0.2932

### Protanopia

64.9700, 0.2862, 0.2904

### Deuteranopia

65.1110, 0.2814, 0.2772



## Tritanopia

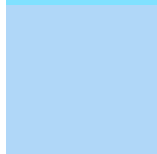
65.8907, 0.2442, 0.3070

## Trichromacy



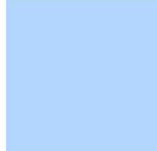
### Original Color

65.6596, 0.2405, 0.2932



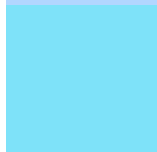
### Protanomaly

64.6083, 0.2665, 0.2911



### Deuteranomaly

64.7781, 0.2638, 0.2827



### Tritanomaly

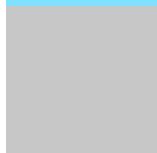
65.6679, 0.2426, 0.3011

## Monochromacy



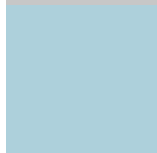
### Original Color

65.6596, 0.2405, 0.2932



### Achromatopsia

57.1125, 0.3127, 0.3290



### Achromatomaly

59.1105, 0.2806, 0.3155

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 65.6596, 0.2405, 0.2932 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(128, 225, 255)` looks like.

```
.text, #text, p{  
    color:rgb(128, 225, 255)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(128, 225, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 225, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 65.6596, 0.2405, 0.2932 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(128, 225, 255) }
```

If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(128, 225, 255) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(128, 225, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 225, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 225, 255);  
box-shadow:4px 4px 4px 4px rgb(128, 225,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 65.6596, 0.2405, 0.2932 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 225, 255) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(128,  
225, 255) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor